RRRRRRRRRRR	MMM MMM	SSSSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSSSS
RRR RRR	MMMMMM MMMMMM	SSS
RRR RRR	ммммм мммммм	SSS
RRR RRR	MMMMM MMMMMM	SSS
RRR RRR	MMM MMM MMM	SSS
RRR RRR	MMM MMM MMM	SSS
• • • • • • • • • • • • • • • • • • • •		SSS
	MMM MMM MMM	
RRRRRRRRRRR	MMM MMM	SSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSS
RRR RRR	MMM MMM	SSS
RRR RRR	MMM MMM	SSS
RRR RRR	MMM MMM	ŠSS
RRR RRR	MMM MMM	ŠŠŠ
RRR RRR	MMM MMM	SSS
RRR RRR	MMM MMM	ŠŠŠ
RRR RRR	MMM MMM	\$\$\$\$\$\$\$\$\$\$\$\$
• • • • • • • • • • • • • • • • • • • •		\$\$\$\$\$\$\$\$\$\$\$\$\$
RRR RRR	MMM MMM	2222222222

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NN NN NN NN NN NN NNNN NN NNNN NN NN NN	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	000000 000000 00 00 00 00	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	AAAAA AA AA AA AA AA AA AA AA AA AA AA AA AAAAAAAA	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE
		\$				

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• • • •

. . . . • • • •

NTOCREATE Table of con	tents	NETWORK CREATE FILE	13	15-SEP-1984 23:52:26	VAX/VMS Macro V04-00
(3) (4) (8) (9) (10) (11)	72 108 646 680 705 805	DECLARATIONS NTSCREATE - PERFORM NETWORK CREATE FUNCTION CREATE UPDATE FAB NTSCHK_ORG - CHECK FILE ORGANIZATION NTSGET_FAC_SHR NTSMAP_FOP - MAP FOP OPTIONS	i		

NT VC

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16 :\* 17 :\*

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15-SEP-1984 23:52:26 VAX/VMS Macro V04-00 5-SEP-1984 16:20:23 [RMS.SRC]NTOCREATE.MAR;1

Page (1)

0000 \$BEGIN NTOCREATE, 000, NF\$NETWORK, < NETWORK CREATE FILE> 0000 0000 0000 0000 0000

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```
22333333333334
             ;++
; Facility: RMS
ŎŎŎŎ
0000
0000
               Abstract:
0000
0000
                       This module communicates with the File Access Listener (FAL) at the
0000
                       remote node to create the specified file.
0000
             ; Environment: VAX/VMS, executive mode
0000
0000
0000
               Author: James A. Krycka,
                                                     Creation Date: 09-DEC-1977
0000
             : Modified By:
0000
         41 42 43
0000
0000
0000
0000
                       V03-011 JAK0142
                                                                         10-APR-1984
                                                     J A Krycka
                                 Fix inconsistency in handling MRS value when dealing with a
          44
                                 remote FAL that uses a stream-based file system.
0000
0000
         46
                       V03-011 JAK0138
                                 JAK0138 J A Krycka 28-MAR-1984 Call modified NT$EXCH_CNF routine with a parameter.
0000
         General cleanup.
0000
                       V03-010 JAK0124
                                 JAK0124 J A Krycka 06-SEP-1983
Make corresponding source code change for VMS V3.5 patch in
0000
                                 support of VAXELAN.
0000
0000
ŎŎŎŎ
                                 JAK0119 J A Krycka 16-JUL-1983
Return an error if any journaling options are requested.
                       V03-009 JAK0119
0000
0000
0000
                       V03-008 KPL0001
                                                     Peter Lieberwirth
                                                                                   23-May-1983
0000
                                 fix assembly error.
ŎŎŎŎ
0000
                                 KRM0088 Karl Malik 18-Mar-1983
Add support for STMCR and STMLF file formats. Also, removed
use of DAP$V_STM bit using NWA$B_RFM field instead.
                       V03-007 KRM0088
          60
0000
          61
0000
         62
ŎŎŎŎ
0000
         64 :
                       V03-006 KRM0078
                                                                         10-Dec-1982
                                                     Karl Malik
                                 Add status check after call to RM$SETALLOC in NT$CREATE.
0000
ŎŎŎŎ
         66 :
67 :
68 :
ŎŎŎŎ
                                 KBT0410 Keith B. Thompson 30-Change IFB$W_DEVBUFSIZ to IFB$L_DEVBUFSIZ.
                       V03-005 KBT0410
                                                                                  30-Nov-1982
ŎŎŎŎ
         69 :
70 :--
0000
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```

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Page

**3** (3)

NTO

V04

```
72
73
74
75
76
77
78
79
                                          .SBTTL DECLARATIONS
 ŎŎŎŎ
0000
 0000
                            Include Files:
0000
0000
                                                                                                               Define DAP prologue symbols
Define DAP message header
Define DAP Configuration message
Define DAP Attributes message
Define DAP Access message
Define File Access Block symbols
Define IFAB symbols
Define Network Work Area symbols
Define RMS completion codes
Define symbols common to all XABs
Define Allocation XAB symbols
Define file Header Char XAB symbols
$DAPPLGDEF
$DAPHDRDEF
                                          SDAPCNFDEF
SDAPATTDEF
                  80
                 81
82
83
84
85
                                          $DAPACCDEF
$FABDEF
                                          $IFBDEF
                                          SNWADEF
                                          $RMSDEF
                                          $XABDEF
                 88
89
                                          SXABALLDEF
                                          $XABFHCDEF
                  90
0000
                            Macros:
0000
0000
                  94
                                          None
0000
0000
                            Equated Symbols:
0000
0000
                                                           DAP$Q_DCODE_FLG EQ O
NWA$Q_FLG EQ O
0000
                                          ASSUME
0000
                                          ASSUME
0000
                101
               102
103
104
105
0000
0000
                            Own Storage:
0000
0000
                                          None
```

```
NETWORK CREATE FILE 15-SEP-1984 23:52:26 VAX/VMS Macro V04-00 NT$CREATE - PERFORM NcTWORK CREATE FUNCT 5-SEP-1984 16:20:23 [RMS.SRC]NTOCREATE.MAR;1
                                .SBTTL NTSCREATE - PERFORM NETWORK CREATE FUNCTION
       0000
               109
       0000
               110
       0000
                       NT$CREATE - engages in a DAP dialogue with the remote FAL to create the specified sequential, relative, or indexed file.
               111
               112
       0000
       0000
       0000
               114
                       Calling Sequence:
       0000
               115
       0000
               116
                               BSBW
                                          NT$CREATE
       0000
               117
       0000
               118
                       Input Parameters:
       0000
               119
               120
121
122
123
      0000
                               R8
                                          FAB address
                               R9
      0000
                                          IFAB address
      0000
                               R10
                                          FWA address
      0000
                               R11
                                          Impure Area address
               124
125
127
128
129
130
       0000
       0000
                       Implicit Inputs:
       0000
       0000
                               User FAB
                               User ALL, DAT, FHC, JNL, KEY, PRO, and RDT XABS DAP$V_GEQ_V54, DAP$V_GEQ_V56
DAP$V_VAXVMS, DAP$V_VAXELAN
       0000
       0000
      0000
                131
                               DAP fields
IFB$B_FAC
      0000
               132
133
      0000
                               IFB$L_NWA_PTR
IFB$L_DEVBUFSIZ
      0000
               134
135
      000C
                               IFBSV CREATE
      0000
               136
137
      0000
                               NWASB_RFM
      0000
               138
      0000
                               NWA$V_CVT_STM
               139
      0000
      0000
               140
                       Output Parameters:
               141
      0000
               142
      0000
                               R0
                                          Status code (RMS)
      0000
                               R1-R7
                                          Destroyed
      0000
               144
                                          Destroyed
               145
      0000
               146
      0000
                       Implicit Outputs:
      0000
               148
149
150
      0000
                               User FAB
      0000
                               User ALLXABS
                               IFB$B_BKS
      0000
               151
152
153
      0000
                               IFB$L_HBK
       ŎŎŎŎ
                               IFB$V DAP OPEN
       0000
                               Resultant name string stored in FWA
               154
155
156
157
       0000
       0000
                       Completion Codes:
       0000
       0000
                               Standard RMS completion codes
               158
159
       0000
       0000
                       Side Effects:
       0000
                160
       0000
                161
                               None
               162
       0000
```

NTO

V04

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Page

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VAX/VMS Macro V04-00

[RMS.SRC]NTOCREATE.MAR:1

	FFBA'  DD 50 52 01 0000 C7 52	30 E9 A8 B0	0043 0046 0046 0046 0049 0040 0051 0055 0057 005A 005A	BSBW BSBW BLBC BISW2 MOVW	0>,R2 NT\$SCAN_NAMBLK RO,FAIL1 #DAP\$M_DSP_ATT,R2 R2,NWA\$W_DISPLAY(R7)	Scan user Name Block and check FAL's capabilities; update request mask Branch on failure to complete scan Request main Attributes message Save request mask
	011E C7 03 FFA6'	B5 13 31	0051 22 0051 22 0055 23 0057 23 005A 23 005A 23	9 TSTW 0 BEQL 1 BRW 2 3;+	OVERRIDE_FAB NT\$LCL_JOP	Ok, if no journaling options have been requested Declare RMS\$_SUPPORT error and exit
			005A 23 005A 23 005A 23 005A 23	5; ALQ, BKZ, DEQ 6; if one is pre 7;- 8	ALQ, BKS, DEQ, and FOP field, and AOP fields of the Alesent.	elds of the FAB with corresponding liocation XAB (area 0 for index files),
	0000000°EF	16	005A 23 005A 24 0060 24	9 OVERRIDE FAB: 0 JSB	RM\$SETALLOC	; Update FAB from ALLXAB ; Update FAB with ALQ, BKS, and DEQ ; fields from Allocation XAB (if
	20 1D A8 29	E9 91 13 00 13	0060 24 0063 24 0067 24	BLBC CMPB BEQL	RO, FAIL1 FAB\$B_ORG(R8), #FAB\$C_IDX SEND_ATT	present) and set-up default DEQ Branch on failure to update FAB Branch if IDX organization
	56 0100 C7 22 6 08 A6 52	D0 13 9A D4	0069 24 006E 24 0070 24 0074 24	6 MOVL 7 BEQL 8 MOVZBL 9 CLRL 0 \$MAPBIT		Branch if IDX organization  Get address of ALLXAB  Branch if not found  Get AOP bits  Clear resultant FOP bits
04 A8	00300000 8F	CA	0076 25 007E 25 0086 25 008E 25	SMAPBIT SMAPBIT BICL2	XAB\$V_CTG,FAB\$V_CTG XAB\$V_CBT,FAB\$V_CBT #< <fab\$m_ctg>!- <fab\$m_cbt>!- 0&gt;,FAB\$L_FOP(R8)</fab\$m_cbt></fab\$m_ctg>	Map CTG bit Map CBT bit Clear affected FOP bits
	04 A8 52	<b>C8</b>	008E 25	5 BISL2	R2,FAB\$L_FOP(R8)	Update FOP from AOP

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VAX/VMS Macro V04-00

51

```
NETWORK CREATE FILE 15-SEP-1984 23:52:26
NT$CREATE - PERFORM NETWORK CREATE FUNCT 5-SEP-1984 16:20:23
                                                                                              [RMS.SRC]NTOCREATE.MAR;1
                      0095
                                      Build and send DAP Attributes message to partner.
                      ŏŏóź
                      0092
                                      If the remote node is not a 'stream only' machine then create a file with the file attributes specified by the user.
                               261
263
263
2645
2667
2667
2689
271
                      0092
                                      If, however, the remote node is a 'stream only' machine then:

(1) for block I/O mode accept any sequential file but specify to FAL that ORG = SEQ, RFM = FIX, RAT = 0, MRS = 512, and ALQ = user value.

(2) for record I/O mode accept a sequential file having stream-embedded
                      0092
                      0092
                      0092
                      0092
                      0092
                                              format, or convert a sequential file in fixed-implied, variable-implied,
                      0092
                                              or stream-implied format to stream-embedded format by specifying that
                      0092
                                              ORG = SEQ. RFM = STM, RAT = EMBEDDED, MRS = 514, and ALQ = 0.
                      0092
                      0092
                                    SEND_ATT:
                               271
272
273
274
275
276
277
278
279
                      0092
                                                                                       ; (required message)
                      0092
                                              MOVL
                                                        #DAP$K_ATT_MSG,RO
                                                                                        Get message type value
        FF68'
                                                        NTSBUILD HEAD
                      0095
                                              BSBW
                                                                                       ; Construct message header
                      0098
                      0098
                                              ASSUME
                                                        DAP$K_SEQ EQ FAB$C_SEQ
                                                        DAPSKIREL EQ FABSCIRE
                      0098
                                              ASSUME
                      0098
                                              ASSUME
                                                        DAP$K_IDX EQ FAB$C_IDX
                      0098
0098
                                              ASSUME
                                                        DAP$K_UDF EQ 0
                      0098
                               ASSUME
                                                        DAP$K_FIX EQ 1
                      0098
0098
0098
                                                        DAPSK VAR EQ 2
DAPSK VFC EQ 3
                                              ASSUME
                                              ASSUME
                                                        DAPSK_STM EQ 4
                                              ASSUME
                      0098
                      0098
                                              ASSUME
                                                        DAP$K_UDF EQ FAB$C_UDF
                      0098
                                              ASSUME
                                                        DAP$K_FIX EQ FAB$C_FIX
                      0098
                                                        DAP$K_VAR EQ FAB$C_VAR
                                              ASSUME
                      0098
                                              ASSUME
                                                        DAP$K_VFC EQ FAB$C_VFC
                                                        DAPSK_STM EQ FABSC_STM
DAPSK_STMLF EQ FABSC_STMLF
                      0098
                                              ASSUME
                      0098
                                              ASSUME
                      0098
                                              ASSUME
                                                        DAP$K_STMCR EQ FAB$C_STMCR
                      0098
                      0098
                                                        DAP$V_FTN EQ FAB$V_FTN
                                              ASSUME
                      0098
                                                        DAPSV CR EQ FABSV CR
                                              ASSUME
                      0098
                                                        DAPSV PRN EQ FABSV PRN
                                              ASSUME
                      0098
                                                        DAP$V_BLK EQ FAB$V_BLK
                                              ASSUME
                      0098
                      0098
                      0098
                                    : Construct attributes menu mask.
                      0098
                      0098
0000106F 8F
                      0098
                                    PART1: MOVL
                                                        #<<DAP$M_DATATYPE>!-
                                                                                         Always include DATATYPE, ORG, RFM,
                               303
                      009F
                                                           <DAP$M_ORG>!-
                                                                                          RAT, MRS, ALQ, and FOP fields in
                      009F
                                                           <DAP$MTRFM>!-
                                                                                          mask
                      009F
                                                           <DAPSM RAT>!-
                      009F
                                                           <DAP$MTMRS>!-
                               307
                      009F
                                                           <DAP$MTALQ1>!-
                               308
                      009F
                                                           <DAP$M_FOP1>!-
                               309
                      009F
                                                        0>,R1
                                                        FABSB_ORG(R8), #FABSC_SEQ; Branch if SEQ_organization
                      009F
                               310
                                              CMPB
       1D A8
                                                                                      ; If not, it's REL or IDX organization
           0Ē
                 13
                      00A3
                               311
                                              BEQL
                                                        10$
                      00A5
                               312
313
                                              SSETBIT #DAPSV BKS_R1
                                                                                         Add BKS fiels to mask
                                                        FAB$B_ORG(R8),#FAB$C_IDX; Branch if IDX organization
                 91
                      00A9
       1D A8
                                              CMPB
```

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```
13 00AD
                            315
                                          SSETBIT #DAPSV MRN,R1
                   OOAF
                                          $CASEB SELECTOR=FAB$B_RFM(R8)-
                   00B3
                            316 10$:
                            317
                                                   DISPL=<-
                   00B3
                   00B3
                                                        405-
                   00B3
                                                        50$-
                   00B3
                                                        405-
                   00B3
                                                        30$-
                   00B3
                                                        405-
                   00B3
                                                        205-
                   00B3
                                                        205-
                   00B3
                                         BRW NTSLCL_RFM
BBS #DAPSV_GEQ_V70,(R7),40$
BRW NTSRMT_RFM
$SETBIT #DAPSV_FSZ,R1
BBC #DAPSV_GEQ_V54,(R7),50$
TSTL NWASL_FHCXABADR(R7)
                   0006
              E0
                                20$:
                   0009
                            328
329
                   00CD
                   0000
                            330 40$:
0A 67 23
0108 C7
                   0004
                            331
               D5
                   8000
                            332
               13
                   00DC
                                          BEQL
                                                   50$
                                          SSETBIT #DAPSV_LRL,R1
TSTW FABSW_DEQ(R8)
                   OODE
              B5
13
                            334 50$:
     14 A8
                   00E2
                            335
         04
                   00E5
                                          BEQL
                                                   60$
                                          SSETBIT #DAP$V_DEQ1,R1
                   00E7
              D0
30
                   00EB
                            337
                                60$:
                                          MOVL
                                                   R1,R6
      FFÓF'
                   00EE
                            338
                                                   NT$CVT_BN4 EXT
                                          BSBW
                            339
                   00F1
                                  Store remaining attributes fields per attmenu mask.
                   00F 1
                   COF 1
   67
              El
                   00F1
                                          BBC
                                                   #DAP$V_STM_ONLY,(R7),- ; Branch if not stream-based remote
                   00F4
                   00F 5
                            347
                   00F5
                   00F 5
                                ; The remote node is using a stream-based file system.
                                  Assume that ORG = SEQ since the NT$CHK_ORG test was passed.
                   00F5
                            351; This section deals with the DATATYPE, ORG, RFM, RAT, MRS, and ALQ fields.
                   00F 5
                   00F 5
              E 0
                   00F5
                                PART2A: BBS
                                                   #FAB$V_BIO,-
FAB$B_FAC(R8),50$
  45 16 A8
                   00F7
                            356
                   00FA
                            357
                   OOF A
                   00FA
                                  Based on RFM and RAT values, perform the following record format conversions
                            359
                   00FA
                                   when creating a file in record I/O mode on a 'stream-only' machine:
                   00FA
                            360
                   OOF A
                            361
                                          FIX-implied
                                                             becomes STM-embedded.
                   OOFA
                                          VAR-implied
                                                             becomes STM-embedded.
                   OOF A
                                          STM-implied
                                                             becomes STM-embedded.
                   00FA
                                          STM-embedded
                                                             remains STM-embedded,
                   00FA
                            365
                                          and all other formats will be rejected.
                   00FA
                   00FA
                            367
                                   Note that implied means RAT = CR and embedded means RAT = no carriage control
                   00FA
                                   bits are set.
                   00FA
                   OOF A
                            370
```

00FA

OOFA

00FA

00FA

00FA

**OOF A** 

00FA

OOFA

00FA

00FA

010D

0110

0114

0114

0114

**0116** 

0119

011D

011D

011F

014A

31 93

13 31

E0

90

11

FEFO'

FEE7'

10

8F

57

00

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ŠŠ

8F

FEAA'

3E

03 1E A8

85 85

85

0200

51 10 A8

0007 07

05

1E A8

409

410

411

105:

20\$:

30\$:

40\$:

50\$:

BRW

BITB

BEQL

BBS

BRW

MOVB

MOVB

MOVB

MOVB

MOVW

CLRB

MOVB

BRB

MOVB

MOVB

MOVB

CLRB

MOVW

MOVL

BSBW

PART3

(R5)+

; user specified no explicit carriage

Syl

DAF

DAF

DAF

DAF

DAI DAI DAI DAI DAI

DAI

DAF

DAF

DAF

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DA DA DA

DA

		0158		remote no	ode is NOT using a stream-	-based file system.
		0158 0158	414; 415 · This	section	deals with the DATATYPE	ORG, RFM, RAT, MRS, and ALQ fields.
		0158 0158	416:	30001011	deded with the parallet,	one, mill, mai, into, and near inclusion
		0158	417			
85 02	90	0158	418 PART2B:	MOVB	<pre>#DAP\$M_IMAGE,(R5)+</pre>	; Store IMAGE mode in DATATYPE field
05	E0	015B	419	BBS	#FAB\$V_BIO,-	: for block I/O access
04 16 Å8	•	015D	420		FABSB FAC(R8),10\$	and ASCII mode
FF A5 01	90	0160	421	MOVB	WDAPSA ASCII,-1(R5)	; for record I/O access
85 1D A8	90	0164	422 10\$:	MOVB	FAB\$B_ORG(R8),(R5)+	: Store ORG field
85 1F A8	90	0168	423	MOVB	FAB\$BTRFM(R8),(R5)+	; Store RFM field
04 1F A8	91	0160	424	CMPB	FAB\$BTRFM(R8).#FAB\$C STM	1; Branch if not stream format
0A	12	0170	425	BNEQ	20\$	
1E A8 07	93	0172	426	BITB	#< <fab\$m_ftn>!-</fab\$m_ftn>	Force implied carriage control if

<FAB\$M\_CR>!-

09 56

0108 C7

0A A1

FEZE'

FE2B'

03 50

0080

E 1

D0

B0 30 30

Ĕ8 31

0102

0166

01CB

01 C F

0102

01D5

01D8

458 459 50**\$**:

460

461

462

BBC

MOVL

MOVW

BSBW

**BSBW** 

**BLBS** 

BRW

NWASL\_FHCXABADR(R7),R1 XABSW\_LRL(R1),(R5)+

NTSBUILD TAIL

NT\$TRANSMIT

RO, SEND\_KEY

FAIL2

Used only if RFM not = FIX

Send Attributes message to FAL

Get address of FHCXAB

Finish building message

Store LRL field

: Failure

Branch on success

Sy

FA

FA

FA

FA

FA

FA

FAFFFFFFF IFF MA

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NT NT

NT

NT

NT NT NT NT NT NT NT NT NI NT NT NT NT NI NT NT NT NT NI NI NI NT

BRB

11

20\$

Join common code

J 14

NETWORK CREATE FILE 15-SEP-1984 23:52:26 VAX/VMS Macro VO4-00 NTSCREATE - PERFORM NETWORK CREATE FUNCT 5-SEP-1984 16:20:23 [RMS.SRC]NTOCREATE.MAR;1

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Page 11

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FD74'

FD71'

C9 50

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564 565

NTSTRANSMIT

RO\_FAIL2

Finish building message

Branch on failure

Send Access message to FAL

BSBW

**BSBW** 

BLBC

K 14

Ph

VA

(6)

Co Sy Pa Sy Ps Cr

As 82 Th 89 31

Ma --

-\$ TO 15

00D0 08 07 0E

621 622 623

; (optional--must be requested)
; Branch if Name message was not

requested

		0292 0292 02292 02292 02297 02297 02297 02299	573 : RMS fr 574 : previo	rom a user who deletes to ously found.	d again to probe all user XABs to protect the address space where an XAB was
		0292	577 RECV_ATT:	T MNADEN ATT MCC NADEL	; (required message) _MSG_MASK(R7) ; Expect response of Attributes message
		0297	578 \$SETB1 579	TE WUAPSK_ATT_MSG,UAPSL	_msg_mask(k/) ; Expect response_of Attributes message
FD66'	30	0297	280 R2RM	NISRECEIVE	; Get reply from FAL
5E 50 45 A7	E 9	029A	581 BLBC 582 MOVB	RO, FAIL3 DAPSB ORG(R7)	<ul><li>Branch on failure</li><li>Save file organization type</li></ul>
0006 07		02A0	583	NWASB ORG (R7)	
46 A7 00C7 C7	90	02A3 02A6	584 MOVB 585	DAPSB_ORG(R7),- NWASB_ORG(R7) DAPSB_RFM(R7),- NWASB_RFM(R7)	; Save file format type
FD54'	30	02A9	586 BSBW 587	NTSMAP_DEV_CHAR	Process device characteristics
		90000000000000000000000000000000000000	588 ;	control blocks.	
		ÖŽÁČ	590 :	control blocks.	
56	D/:	0220	591 502 CLBI	D.4	. Indicate this is not a close exertion
FD4F'	D4 30 E9 30	02AE	592 CLRL 593 BS3W	R6 NT\$SCAN_XABCHN	<pre>; Indicate this is not a close operation ; Scan user XAB list again</pre>
47 50	Ē9	02B1	594 BLBC	RO, FAIL3	; Branch on failure to scan XABs
0045 02	50 E0	0284	595 BSBW 596 BBS	Whapsvinch all -	<pre>; Update user FAB ; Branch if Allocation message</pre>
00DO C7		02B9	597	NWASW_DISPEAY(R7),-	; was requested
03 FD40'	30	02BC 02BD	598 599 BSBW	RO, FAIL3 CREATE_UPDATE_FAB #DAP\$V_DSP_AL[,- NWA\$W_DISPLAY(R7),- RECV_EXT_ATT NT\$DECODE_ALL_A	; : Update user ALLXAB from fields in
		02C0 02C0	600 601		; Attributes message (unless ORG = IDX)
		0200	602 ;+	Extended Attributes mes	ssages from partner and update the user
		0200	604 ; ALLXABs.		
		0500	605 : 606 : Note: For in	ndexed files, multiple A	Allocation messages may be returned.
		ŎŽČŎ	607 :-		
		02C0 02C0	608 PECV EXT ATT.		; (optionalmust be requested)
00D0 C7	E1	02CO	609 RECV_EXT_ATT: 610 BBC	#DAP\$V_DSP_ALL,-	; Branch if Allocation message was not
00D0 C7		0202	611	NWA\$W_DISPEAY(R7),-	: requested
06 FD37'	30	02C5 02C6	612 613 BSBW	#DAP\$V_DSP_ALL,- NWA\$W_DISPEAY(R7),- RECV_NAM NT\$RECV_EXT_ATT	Process Extended Attributes messages
2f 50	Ē9	0209 0200	614 BLBC 615	RO, FAIL3	; Branch on failure
		02CC	616 ;+	4 4 4 4 4	
		05cc	617 : Receive DAP 618 :-	(resultant) Name messag	ge from partner.
		0200	619		
08	F 1	02CC	620 RECV_NAM: 621 BBC	#DAP\$V DSP NAM	<pre>; (optionalmust be requested) : Branch if Name message was not</pre>

#DAP\$V\_DSP\_NAM,-NWA\$W\_DISPEAY(R7),-RECV\_ACK

VAX/VMS Macro V04-00 [RMS.SRC]NTOCREATE.MAR;1	Page	14 (7)	
(R7) ect response of Name message reply from FAL nch on failure tess resultant name string			
•			
quired message)			

NT Ta

		0202	624 \$SETBIT	#DAP\$K_NAM_MSG,DAP\$L_MSG	_MASK(R7) ; Expect response of Name message
FD26'	30	02D7 02D7 02DA 02DD	624 \$SETBIT 625 626 BSBW 627 BLBC 628 BSBW 629 630 ;+	NT\$RECEIVE	; Get reply from FAL
FD26' 1E 50 FD20'	30 E9 30	02DA 02DD	626 BSBW 627 BLBC 628 BSBW	RO,FAIL3 NT\$DECODE_NAM	; Branch on failure ; Process resultant name string
		02E0	629		, results resulting the right
		02E0 02E0 02EE0 02EE0 02EE5 02EE5 02EE5 02EE5		cknowledge message from p	partner.
		02E0	632 ;- 633		
		ÖŽEÖ	634 RECV ACK:		; (required message)
		02E0 02E5	635 \$SETBIT 636 637 BSBW 638 BLBC 639 \$SETBIT	#DAP\$K_ACK_MSG,DAP\$L_MSG	i_MASK(R7) ; Expect response of Acknowledge message
FD18' 10 50	30 E9	ÖŽĒŠ	637 BSBW 638 BLBC	NTSRECEIVE	; Get reply from FAL
10 50	E9	02E <b>B</b>	638 BLBC 639 \$SETBIT	RO,FAIL3 #IFB\$V_DAP_OPEN,(R9)	; Branch on failure ; Yes, denote FAL has opened file
05 (7 0)	F 4	02EF 02F2	640 RMSSUC		: Return success
05 67 06	E1	C2F6	640 RMSSUC 641 BBC 642 RMSERR	WNWASV_CVI_SIM,(R/),FAIL CRE_STM	.3;Branch if no conversion will occur : Return alternate success to indicate
	۸۶	02FB	643		; Return alternate success to indicate ; that file format will become stream
	05	02FB 02FB	643 644 FAIL3: RSB	_	; that file format will become stream : Exically RMS code in RO

NETWORK CREATE FILE 15-SEP-1984 23:52:26 NT\$CREATE - PERFORM NETWORK CREATE FUNCT 5-SEP-1984 16:20:23

NTOCREATE VO4-000

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NTOCREATE VO4-000

15-SEP-1984 23:52:26 VAX/VMS Macro V04-00 5-SEP-1984 16:20:23 [RMS.SRC]NTOCREATE.MAR; î

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				0312	680		.SBTTL	. NT\$CHK_ORG - CHECK FILE O	RGANIZATION
				0312 0312 0312	681 682 683 684	NTSCH	K_ORG c	checks the ORG value against	that supported by the remote FAL.
00	1D A	8 9 7 1 1 E	1 2 0	0312 0312 0312 0312 0312 0312 0316 0318	685 686 687 688 689	NT\$CHK_	ORG:: CMPB BNEQ BBS	FAB\$B_ORG(R8),#FAB\$C_SEQ; 10\$ #DAP\$V_SEQORG,-	Entry point Check for sequential organization Branch if not Branch if supported by partner
10		7 8 1		031A 031D	690			DAP\$Q_SYSCAP(R7),40\$	Error if not
10	1D A	8 9 7 1	1	031F 0323	691 692 693 694	10\$:	BRB CMPB BNEQ BBS	FAB\$B_ORG(R8), #FAB\$C_REL: 20\$ #DAP\$V_RELORG, -	Check for relative organization Branch if not Branch if supported by partner
10	28 A	7 B 1		0325 0327 032A	695 696		BRB	DAP\$Q_5YSCAP(R7),40\$ ; 30\$ ;	Error if not
20	1D A	<b>B E</b>	1 2 0	032A 032C 0330 0332	697 698 699	20\$:	CMPB BNEQ BBS	<pre>FAB\$B_ORG(R8),#FAB\$C_IDX; 30\$ #DAP\$V_IDXORG,-</pre> ;	Check for indexed organization Error if not Branch if supported by partner
03	PCC	6' 3	1	0334 0337 033A	702	30 <b>s</b> : 40 <b>s</b> :	BRW RMSSUC	DAP\$Q_5YSCAP(R7),40\$; NT\$RMT_ORG;	Declare RMS\$_SUPPORT error and exit Return success
		0	5	033D	703		RSB	:	Exit with RMS code in RO

B 15

22 A9 80 8F

38 32

01 15

02

24 34 35

8F

16 67 50 8F

1E 67 05 69

08 67

08 67

04 67

65

65

40

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(10)

NT

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15-SEP-1984 23:52:26 VAX/VMS Macro V04-00 5-SEP-1984 16:20:23 [RMS.SRC]NTOCREATE.MAR;1
NETWORK CREATE FILE
NTSGET FAC SHR
```

```
.SBTTL NTSGET FAC SHR
              706
707
                   ; This routine builds the DAP FAC and SHR fields and stores them as extensible
                   : fields in the DAP message.
              710
                     Note: It is assumed that each of these fields can be encoded into one byte
                              (i.e., that an extension byte is never needed).
                     Note: The definitions of the bit offsets for the FAC field in the DAP and FAB
              715
                              control blocks are the same, whereas, the defintions of the bit offsets
                              for the SHR field in these control blocks are slightly different.
              717
     033E
              719 NTSGET_FAC_SHR::
                                                                       : Entry point
     033E
                             ASSUME DAPSV_GET EQ FABSV_GET ASSUME DAPSV_PUT EQ FABSV_PUT ASSUME DAPSV_DEL EQ FABSV_DEL ASSUME DAPSV_UPD EQ FABSV_UPD ASSUME DAPSV_TRN EQ FABSV_BIO EQ FABSV_BIO
     033E
              721
722
723
724
725
726
727
728
     033E
     033E
     033E
                              ASSUME DAPSV_BRO EQ FARSV_BRO
     033E
     033Ē
                   : First the FAC field.
              731
732
733
     033E
     033E
                     Note: If partner node is:
                         (1) VAX/VMS since DAP V5.6 then map <GET, PUT, DEL, UPD, TRN, BIO, BRO>.
     033E
              734
735
                         (2) VAX/VMS before DAP V5.6 then map <GET, PUT, DEL, UPD, TRN, BIO>.
                        (3) RMS based but not VAX/VMS (4) not RMS based then only
                                                                   map <GET, PUT, DEL, UPD, TRN, BIO>.
                                                                   map <GET, PUT, BIO>.
              737; Note: In the above definition, include VAXELAN in the VAX/VMS check. 738; In addition, if partner is RT-11, then mask out <GET> on $CREATE and
     033E
              739
                   : mask out <PUT> on $OPEN.
              740 :-
     033E
              741
              742
743
     033E
                   MAP_FAC:
                              MOVB
                                        IFB$B FAC(R9),(R5)
                                                                         Store FAC field
8A
              744
                                        #FABSM_EXE, (R5)
                             BICB2
                                                                         Mask out this option but don't
     0346
              745
                                                                          complain about it
     0346
                                        #DAP$V_RMS,(R7),20$
                                                                         Branch if partner is RMS based
                                        #<<DAP$M_DEL>!-
              77489
777553
77557
7757
7757
77589
760
     034A
                             BICB2
                                                                         Mask out more bits
                                          <DAPSM_UPD>!-
<DAPSM_TRN>!-
     034E
     034E
     034E
                                          <DAP$M_BRO>!-
     034E
                                        0>,(R5)
                                        #DAPSV_RT11,(R7),40$
#IFBSV_CREATE,(R9),10$
#DAPSM_PUT,(R5)
     034E
                                                                         Branch if remote node is not RT-11
EO
8A
     0352
                                                                         Branch on $CREATE
                              BBS
     0356
                              BICB2
                                                                         Mask out <PUT> access on $OPEN
11
     0359
                                        40$
                              BRB
8A
11
     035B
                              BICB2
                   105:
                                        #DAPSM_GET,(R5)
                                                                         Mask out <GET> access on $CREATE
     035E
                              BRB
                                        #DAP$V_GEQ_V56,(R7),30$
#DAP$V_VAXVMS,(R7),40$
#DAP$V_VAXELAN,(R7),40$
E1
     0360
                   205:
                              BBC
                                                                         Branch if partner uses DAP before V5.6
ĒΟ
     0364
                              BBS
                                                                         Branch if partner is VAX/VMS
ĔŎ
     0368
                              BBS
                                                                         Branch if partner is VAXELAN
ŠĂ
     0360
              761
                   30$:
                              BICB2
                                        WDAP$M_BRO, (R5)
                                                                         Mask out this option but don't
```

NETWORK CREATE FILE NTSGET\_FAC\_SHR

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		55	D6	00000000000000000000000000000000000000	767; 768; Note: 769; (1) 770; (2) 771; (3)	VAX/VMS VAX/VMS	ner node is: Since DAP V5.6 1	complain about it; Advance to ext field in message then map <get, del,="" nil="" put,="" upd,="" upi,="">. then map <get, del,="" put,="" upd="">. T, PUT&gt; only.</get,></get,>
51	17	A8 52	9A	0372 0372 0372	773 774 MAP_SHR 775	MOATRE		; Get SHR bits
		52	D4	0376 0378	776 777	CLRL SMAPBIT	R2 FAB\$V_SHRPUT,DAP	; Clear resultant SHR bits \$V_SHRPUT; Map PUT bit
24	67	34	E1	0380 0388	778 779	SMAPBIT BBC	FABSV_SHRGET.DAPS #DAPSV_VAXVMS,(R	SV_SHRPUT; Map PUT bit  \$V_SHRPUT; Map PUT bit  \$V_SHRGET; Map GET bit  7),10\$ ; Branch if partner is not VAX/VMS  \$V_SHRDEL; Map DEL bit  \$V_SHRUPD; Map UPD bit  R7),10\$ ; Branch if partner uses DAP before V5.6  UPI ; Map UPI bit  NIL ; Map NIL bit  ; Store SHR field
10	67	24	E 1	0394	780 781 782 783	\$MAPBIT	FABSV_SHRUPD_DAPS FABSV_SHRUPD_DAPS	\$V_SHRUPD; Map DEL DIT \$V_SHRUPD; Map UPD bit B75 10\$ : Boomsh if postpor upon DAR hofore V5 4
10	01	67	<b>E</b> 1	03A0 03A8	783 784	\$MAPBIT	FABSV OPI DAPSV U	N7),103; Branch it partiger uses DAP before vol. UPI ; Map UPI bit NII : Map NII bit
	85	52	90	03B0 03B3	785 10 <b>\$</b> : 786	MOVB	R2,(R5)+	; Store SHR field
				03B3 03B3 03B3 03B3 03B3	789; of the 790; (and p	e FAC/SH possibly	R fields that exist with other file s	·
				03B3 03B3	793 : in the	RMS ale SHR fi	lows FAC = <get> a eld unless <put> i</put></get>	<pre>and SHR = <get!put> but RMS-11 objects to <put> in the FAC field is also set.</put></get!put></pre>
				03B3 03B3 03B3	796 : circum 797 :	emporary nstance	solution is to mail solution is to mail solution is to make the remote node	ask out <put> in the SHR field in this e is not VAX/VMS.</put>
\ FF	67 A5 A5	34 00 00	E0 E1 E0	0383 0387 0387 0380 0301 0306	798 799 800 801 802 803 20\$:	BBS BBC BBS \$CLRBIT RSB	#DAP\$V_VAXVMS,(R7 #DAP\$V_SHRPUT,-1( #DAP\$V_PUT,-2(R5) #DAP\$V_SHRPUT,-1(	7),20\$; Branch if partner is VAX/VMS (R5),20\$; Branch if PUT bitnot set in SHR ),20\$; Branch if PUT bitset in FAC (R5); Clear PUT bit in SHR field ; Exit

NTOCREATE

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BICL2

RO.R4

Mask out supported requests

V04-000

NTI

VO:

		NETW NTSM	ORK CRE AP_FOP	ATE FILE - MAP FOP OPTIONS	F 15 15-SEP-1984 5-SEP-1984	23:52:26
	18	12	0431 0433 0438 0443 0448	862 BNEQ 863 \$MAPBI 864 \$MAPBI 865 \$MAPBI	20\$ T FAB\$V_SPL,DAP\$V_SPL T FAB\$V_SCF,DAP\$V_SCF T FAB\$V_DLT,DAP\$V_DLT	<pre>; Branch if any are not supported ; Map SPL bit ; Map SCF bit ; Map DLT bit</pre>
			044B 044B 044B 044B	868 ; The followin	ë mapped iff partner is	I in the DAP V4.2 specification or later. VAX/VMS and for MXV additional checks
16 67 12 67 2E 67 2A 67	34 35 30 24	E0 E1 E1	044B 044F 0453 0457 045B	874 BBS 875 BBC 876 BBC 877 \$MAPBI	#DAP\$V_VAXVMS,(R7),30 #DAP\$V_VAXELAN,(R7),3 #DAP\$V_RMS,(R7),40\$ #DAP\$V_GEQ_V56,(R7),4 T_FAB\$V_MXV,DAP\$V_MXV	<pre>ps  ; Branch if partner is VAX/VMS ps ; Branch if partner is VAXELAN ps ; Branch if partner is not RMS based ps ; Branch if partner uses DAP before V5.6 ps ; Map MXV bit</pre>
	20	11	0463 0465 0460 0475 0470	878 879 30\$: \$MAPBI 880 \$MAPBI 881 \$MAPBI 882; **** \$MAPBI 883 \$MAPBI	40\$ T FAB\$V_SQO,DAP\$V_SQO T FAB\$V_MXV,DAP\$V_MXV T FAB\$V_CBT,DAP\$V_CBT T FAB\$V_DFW,DAP\$V_DFW T FAB\$V_TEF,DAP\$V_TEF T FAB\$V_OFP_DAP\$V_OFP	Map SQO bit Map MXV bit Map CBT bit Map DFW bit Map TEF bit
51 F	52 B75'	D0 30 05	0485 0485 0485 0488 0488	885 886 887 40\$: MOVL 888 BSBW 889 RSB	T FABSV_OFP,DAPSV_OFP  R2,R1 NT\$CVT_BN4_EXT	; Map OFP bit ; Note: it makes no sense to send this ; bit since all parsing is done locally ; Move data to correct register ; Store FOP as an extensible field ; Exit with RMS code in RO
			048C 048C	890 891 .END		; End of module

15-SEP-1984	23:52:26	VAX/VMS Macro V04-00 [RMS_SRC]NTOCREATE_MAR:1	Page 21
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NTOCREATE	NETWORK CREATE FILE	15-SEP-198	4 23:52:26 VAX/VM
Symbol table		5-SEP-198	4 16:20:23 [RMS.S
\$\$.PSECT_EP \$\$COUNT \$\$RMSTEST \$\$RMS_PBUGCHK \$\$RMS_TBUGCHK \$\$RMS_UMODE BUILD_MASK CREATE_UPDATE_FAB DAP\$B_ACCOPT DAP\$B_BCCOPT DAP\$B_BCCOPT DAP\$B_BCCOPT DAP\$B_BCCOPT DAP\$B_BCCOPE_FID DAP\$B_BCCOPE_MAC DAP\$B_DCODE_MAC DAP\$B_DCODE_MAC DAP\$B_DCODE_MAC DAP\$B_CCONUM DAP\$B_CCVER DAP\$B_ECONUM DAP\$B_FILESYS DAP\$B_FILESY	= 00000007 = 0000001A = 00000008 = 00000027 R 01 000002FC R 01 00000041 00000050 0000050 0000052 00000019 0000018 00000018 00000047 00000045 00000045 00000045 00000045 00000045 00000045 00000045 00000045 00000045 00000046 00000046 00000046 00000046 00000046 00000046 0000000000	DAPSL DCODE_STS DAPSL DEV DAPSL EBK DAPSL FOP1 DAPSL HBK DAPSL MRN DAPSL SBN- DAPSL SSPWA DAPSL SSPWA DAPSL SSPWA DAPSL TEMP DAPSM BITCNT DAPSM BITCNT DAPSM BOD DAPSM DATATYPE DAPSM DDL DAPSM DATATYPE DAPSM DDL DAPSM DSP SNAM DAPSM DSP ATT DAPSM DSP SUM DAPSM DSP SUM DAPSM DSP SUM DAPSM DSP TIM DAPSM DSP TIM DAPSM DSP TIM DAPSM FOP1 DAPSM FOP1 DAPSM FOR1 DAPSM FOR1 DAPSM FOR6 DAPSM MRSE DAPSM TMP18 DAPSM TMP28 DAPSM TMP28 DAPSM TMP28 DAPSM TMP28 DAPSM TMP28 DAPSM TMP38 DAPSM TMP48 DAPSM TMP58 DAPSM TM	0000068 00000074 00000078 000000078 000000080 0000000080 00000000

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DAP\$V_BRO	6 VAX/V 3 ERMS.
DAPSV_RWC	00000000000000000000000000000000000000

NTOCREATE Symbol table	NETWORK CREATE FILE	; 15 15-SEP-1984 5-SEP-1984	4 23:52:26 VAX/VMS Macro VO4-00 4 16:20:23 [RMS.SRC]NTOCREATE.MAR;1	Page 23 (11)
FABSV_SCF FABSV_SHRDEL FABSV_SHRDET FABSV_SHRUPD FABSV_SPL FABSV_SUP FABSV_SUP FABSV_TEF FABSV_TMD FABSV_TMD FABSV_TMD FABSV_UPD FABSV_UPD FABSV_UPI FABSV_UPI FABSV_UPI FABSV_DEQ FABSW_BLS FABSW_BLS FABSW_BLS FABSW_DEQ FABSW_TMR FAIL2 FAIL3 IFBSD_CCE FAC IFBSL_NWA PTR IFBSV_CREATE IFBSV_CREATE IFBSV_CREATE IFBSV_DAP_OPEN MAP_FAC MAP_SHR NTSBUILD_HEAD NTSBUILD_TAIL NTSCHK_ORG NTSCRC_INIT NTSCHK_ORG NTSCRC_INIT NTSCKC_INIT NTSCC_INIT NTSCKC_INIT NTSCKC_INIT NTSCKC_INIT NTSCKC_INIT NTSCKC_INIT NTSCKC_INIT NTSCC_INIT NTSC_INIT NTSC	= 000000000000000000000000000000000000	NTSSCAN_ALLXAB NTSSCAN_KEYXAB NTSSCAN_XABCHN NTSSCAN_XABCHN NTSSCAN_XABCHN NTSSCAN_XABCHN NTSSCAN_XABCHN NTSSCAN_XABCHN NTSSCAN_XABCHN NTSSCAN_XABCHN NWASB_ALLXABCNT NWASB_DAP_RAC NWASB_DAP_RAC NWASB_NODBUFS1Z NWASB_NODBUFS1Z NWASB_NODBUFS1Z NWASB_NODBUFS1Z NWASB_NODBUFS1Z NWASB_NODBUFS1Z NWASB_RFM NWASB_RFM NWASB_RFM NWASB_RFM NWASB_RFM NWASB_ALLXABADR NWASL_ALLXABADR NWASL_ALLXABADR NWASL_DATXABADR NWASL_DATXABADR NWASL_NEST MABADR NWASL_NEST MABADR NWASL_NEST MABADR NWASL_SAVE_FLGS NWASL_SAVE_FLGS NWASL_SUMXABADR NWASL_XLTSUFFLG NWASL_XLTSUFFLG NWASL_XLTSUZ NWASL_XLTSUZ NWASL_XLTSUZ NWASL_NUTSUZ NWASL_NUTS	******* X 01 ****** X 01 ******* X 01 ******* X 01 ******* X 01 ******* X 01 ****** X 01 ******* X 01 ******* X 01 ******* X 01 ******* X 01 ****** X 01 ******* X 01 ******** X 01 ********* X 01 ********* X 01 ********* X 01 ********** X 01 ********** X 01 *********** X 01 *********** X 01 ************ X 01 ************************************	

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WRT NOVEC BYTE

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EXE

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NTOCREATE VAX-11 Macro Run Statistics

NETWORK CREATE FILE

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Performance indicators !

Phase	Page faults	CPU Time	<b>Elapsed Time</b>
Initialization	32	00:00:00.09	00:00:00.61
Command processing	32 123	00:00:00.57	00:00:04.73
Pass 1	382	00:00:15.49	00:00:43.61
Symbol table sort	_0	00:00:01.77	00:00:02.26
Pass 2	174	00:00:03.49	00:00:07.20
Symbol table output	44	00:00:00.36	00:00:01.66
Psect synopsis output	1	00:00:00.02	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	758	00:00:21.81	00:01:00.12

The working set limit was 1650 pages.
82442 bytes (162 pages) of virtual memory were used to buffer the intermediate code.
There were 70 pages of symbol table space allocated to hold 1277 non-local and 83 local symbols.
891 source lines were read in Pass 1, producing 18 object records in Pass 2.
31 pages of virtual memory were used to define 30 macros.

! Macro library statistics !

Macro library name Macros defined

\$255\$DUA28:[RMS.OBJ]RMS.MLB;1

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

TOTALS (all libraries)

Amacros defined

22
25
26

1555 GETS were required to define 26 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:NTOCREATE/OBJ=OBJS:NTOCREATE MSRCS:NTOCREATE/UPDATE=(ENHS:NTOCREATE)+LIBS:RMS/LIB

0315 AH-BT13A-SE

## DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

